

RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 09/545,998B
Source: 1FW16
Date Processed by STIC: 8/10/05

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**CRF Errors edited by the STIG Systems
Branch.**

Serial Number: 09/545,998B

CRF Edit Date: 8/10/05
Edited by: js

Realigned nucleic acid/amino acid numbers/text in cases where the sequence text "wrapped" to the next line

Corrected the SEQ ID NO. Sequence numbers edited were:

Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited:

Deleted: invalid beginning/end-of-file text ; page numbers

Inserted mandatory headings/numeric identifiers, specifically:

Moved responses to same line as heading/numeric identifier, specifically:

Other:



IFW16

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/545,998B

DATE: 08/10/2005

TIME: 14:51:48

Input Set : N:\AMC\PTO.AMC.txt

Output Set: N:\CRF4\08102005\I545998B.raw

SEQUENCE LISTING

4 (1) GENERAL INFORMATION:

6 (i) APPLICANT: Gorman, Daniel M.
7 Randall, Troy D.
8 Zlotnik, Albert10 (ii) TITLE OF INVENTION: MAMMALIAN CELL SURFACE ANTIGENS; RELATED
11 REAGENTS

13 (iii) NUMBER OF SEQUENCES: 9

15 (iv) CORRESPONDENCE ADDRESS:

16 (A) ADDRESSEE: DNAX Research Institute
17 (B) STREET: 901 California Avenue
18 (C) CITY: Palo Alto
19 (D) STATE: California
20 (E) COUNTRY: USA
21 (F) ZIP: 94304-1104

23 (v) COMPUTER READABLE FORM:

24 (A) MEDIUM TYPE: CD-R
25 (B) COMPUTER: IBM PC compatible
26 (C) OPERATING SYSTEM: PC-DOS/MS-DOS
27 (D) SOFTWARE: PatentIn Release #1.0, Version #1.30

29 (vi) CURRENT APPLICATION DATA:

C--> 30 (A) APPLICATION NUMBER: US/09/545,998B
C--> 31 (B) FILING DATE: 10-Apr-2000
32 (C) CLASSIFICATION:

42 (vii) PRIOR APPLICATION DATA:

35 (A) APPLICATION NUMBER: US 08/911,423
36 (B) FILING DATE: 16-AUG-1996
39 (A) APPLICATION NUMBER: US 60/023,419
40 (B) FILING DATE: 16-AUG-1996
43 (A) APPLICATION NUMBER: US 60/027,901
44 (B) FILING DATE: 07-OCT-1996

46 (viii) ATTORNEY/AGENT INFORMATION:

47 (A) NAME: Hill, Laurie L.
48 (B) REGISTRATION NUMBER: 51,804
49 (C) REFERENCE/DOCKET NUMBER: 140942000510

51 (ix) TELECOMMUNICATION INFORMATION:

52 (A) TELEPHONE: 858-720-5100
53 (B) TELEFAX: 858-720-5125

56 (2) INFORMATION FOR SEQ ID NO: 1:

58 (i) SEQUENCE CHARACTERISTICS:
59 (A) LENGTH: 1073 base pairs
60 (B) TYPE: nucleic acid
61 (C) STRANDEDNESS: single

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/545,998B

DATE: 08/10/2005
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Input Set : N:\AMC\PTO.AMC.txt
Output Set: N:\CRF4\08102005\I545998B.raw

62 (D) TOPOLOGY: linear
64 (ii) MOLECULE TYPE: cDNA
67 (ix) FEATURE:
68 (A) NAME/KEY: CDS
69 (B) LOCATION: 68..751
72 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:
74 CTCGAGATCC ATTGTGCTGG AAAAGGAACT CCTGAAATCA GCCGACAGAA GACTCAGGAG 60
76 AAGCACT ATG GGG GCA TGG GCC ATG CTG TAT GGA GTC TCG ATG CTC TGT 109
77 Met Gly Ala Trp Ala Met Leu Tyr Gly Val Ser Met Leu Cys
78 1 5 10
80 GTG CTG GAC CTA GGT CAG CCG AGT GTA GTT GAG GAG CCT GGC TGT GGC 157
81 Val Leu Asp Leu Gly Gln Pro Ser Val Val Glu Glu Pro Gly Cys Gly
82 15 20 25 30
84 CCT GGC AAG GTT CAG AAC GGA AGT GGC AAC AAC ACT CGC TGC TGC AGC 205
85 Pro Gly Lys Val Gln Asn Gly Ser Gly Asn Asn Thr Arg Cys Cys Ser
86 35 40 45
88 CTG TAT GCT CCA GGC AAG GAG GAC TGT CCA AAA GAA AGG TGC ATA TGT 253
89 Leu Tyr Ala Pro Gly Lys Glu Asp Cys Pro Lys Glu Arg Cys Ile Cys
90 50 55 60
92 GTC ACA CCT GAG TAC CAC TGT GGA GAC CCT CAG TGC AAG ATC TGC AAG 301
93 Val Thr Pro Glu Tyr His Cys Gly Asp Pro Gln Cys Lys Ile Cys Lys
94 65 70 75
96 CAC TAC CCC TGC CAA CCA GGC CAG AGG GTG GAG TCT CAA GGG GAT ATT 349
97 His Tyr Pro Cys Gln Pro Gly Gln Arg Val Glu Ser Gln Gly Asp Ile
98 80 85 90
100 GTG TTT GGC TTC CGG TGT GTT GCC TGT GCC ATG GGC ACC TTC TCC GCA 397
101 Val Phe Gly Phe Arg Cys Val Ala Cys Ala Met Gly Thr Phe Ser Ala
102 95 100 105 110
104 GGT CGT GAC GGT CAC TGC AGA CTT TGG ACC AAC TGT TCT CAG TTT GGA 445
105 Gly Arg Asp Gly His Cys Arg Leu Trp Thr Asn Cys Ser Gln Phe Gly
106 115 120 125
108 TTT CTC ACC ATG TTC CCT GGG AAC AAG ACC CAC AAT GCT GTG TGC ATC 493
109 Phe Leu Thr Met Phe Pro Gly Asn Lys Thr His Asn Ala Val Cys Ile
110 130 135 140
112 CCG GAG CCA CTG CCC ACT GAG CAA TAC GGC CAT TTG ACT GTC ATC TTC 541
113 Pro Glu Pro Leu Pro Thr Glu Gln Tyr Gly His Leu Thr Val Ile Phe
114 145 150 155
116 CTG GTC ATG GCT GCA ATT TTC CCA ACC ACA GTC CAG CTC GGC 589
117 Leu Val Met Ala Ala Cys Ile Phe Phe Leu Thr Thr Val Gln Leu Gly
118 160 165 170
120 CTG CAC ATA TGG CAG CTG AGG AGG CAA CAC ATG TGT CCC CGA GAG ACC 637
121 Leu His Ile Trp Gln Leu Arg Arg Gln His Met Cys Pro Arg Glu Thr
122 175 180 185 190
124 CAG CCA TTC GCG GAG GTG CAG TTG TCA GCT GAG GAT GCT TGC AGC TTC 685
125 Gln Pro Phe Ala Glu Val Gln Leu Ser Ala Glu Asp Ala Cys Ser Phe
126 195 200 205
128 CAG TTC CCT GAG GAG GAA CGC GGG GAG CAG ACA GAA GAA AAG TGT CAT 733
129 Gln Phe Pro Glu Glu Arg Gly Glu Gln Thr Glu Glu Lys Cys His
130 210 215 220

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/545,998B

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Input Set : N:\AMC\PTO.AMC.txt
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132	CTG	GGG	GGT	CGG	TGG	CCA	TGAGGCCTGG	TCTTCCTCTG	TGCCCCAAGC	781								
133	Leu	Gly	Gly	Arg	Trp	Pro												
134				225														
136	CAGACGCTAC	AAGACTTGCC	CAGCTATAACC	CTTGGTGAGA	GCAGGGGCCA	TGCTCTGCAC	841											
138	CCTTCCCTGG	GCCTGCCCT	GCTCCCCTCA	ACAGTGGCGG	AAGTGGGTGT	ATGAGAGCGG	901											
140	TGAGTTACGA	TTGGGCCCTA	TGGCTGCCTT	TCTCATTG	CAGCTCTGTT	GGAGTAGGGT	961											
142	CTTGGGCC	ACCAAGAGCA	CCACGTTAG	CACAAGATCT	TGTACAAGAA	TAAATACTTG	1021											
144	TTTAGTAACC	TGAAAAAAA	AAAAAAAAGG	GCGGCCGCGG	AGGCCGAATT	CC	1073											
147	(2)	INFORMATION FOR SEQ ID NO: 2:																
149	(i)	SEQUENCE CHARACTERISTICS:																
150	(A)	LENGTH: 228	amino acids															
151	(B)	TYPE: amino acid																
152	(D)	TOPOLOGY: linear																
154	(ii)	MOLECULE TYPE: protein																
156	(xi)	SEQUENCE DESCRIPTION: SEQ ID NO: 2:																
158	Met	Gly	Ala	Trp	Ala	Met	Leu	Tyr	Gly	Val	Ser	Met	Leu	Cys	Val	Leu		
159	1					5				10						15		
161	Asp	Leu	Gly	Gln	Pro	Ser	Val	Val	Glu	Glu	Pro	Gly	Cys	Gly	Pro	Gly		
162							20			25						30		
164	Lys	Val	Gln	Asn	Gly	Ser	Gly	Asn	Asn	Thr	Arg	Cys	Cys	Ser	Leu	Tyr		
165							35			40						45		
167	Ala	Pro	Gly	Lys	Glu	Asp	Cys	Pro	Lys	Glu	Arg	Cys	Ile	Cys	Val	Thr		
168							50			55						60		
170	Pro	Glu	Tyr	His	Cys	Gly	Asp	Pro	Gln	Cys	Lys	Ile	Cys	Lys	His	Tyr		
171							65			70						75		80
173	Pro	Cys	Gln	Pro	Gly	Gln	Arg	Val	Glu	Ser	Gln	Gly	Asp	Ile	Val	Phe		
174							85			90						95		
176	Gly	Phe	Arg	Cys	Val	Ala	Cys	Ala	Met	Gly	Thr	Phe	Ser	Ala	Gly	Arg		
177							100			105						110		
179	Asp	Gly	His	Cys	Arg	Leu	Trp	Thr	Asn	Cys	Ser	Gln	Phe	Gly	Phe	Leu		
180							115			120						125		
182	Thr	Met	Phe	Pro	Gly	Asn	Lys	Thr	His	Asn	Ala	Val	Cys	Ile	Pro	Glu		
183							130			135						140		
185	Pro	Leu	Pro	Thr	Glu	Gln	Tyr	Gly	His	Leu	Thr	Val	Ile	Phe	Leu	Val		
186							145			150						155		160
188	Met	Ala	Ala	Cys	Ile	Phe	Phe	Leu	Thr	Thr	Val	Gln	Leu	Gly	Leu	His		
189							165			170						175		
191	Ile	Trp	Gln	Leu	Arg	Arg	Gln	His	Met	Cys	Pro	Arg	Glu	Thr	Gln	Pro		
192							180			185						190		
194	Phe	Ala	Glu	Val	Gln	Leu	Ser	Ala	Glu	Asp	Ala	Cys	Ser	Phe	Gln	Phe		
195							195			200						205		
197	Pro	Glu	Glu	Glu	Arg	Gly	Glu	Gln	Thr	Glu	Glu	Lys	Cys	His	Leu	Gly		
198							210			215						220		
200	Gly	Arg	Trp	Pro														
201	225																	
203	(2)	INFORMATION FOR SEQ ID NO: 3:																
205	(i)	SEQUENCE CHARACTERISTICS:																
206	(A)	LENGTH: 1006	base pairs															
207	(B)	TYPE: nucleic acid																

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/545,998B

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Input Set : N:\AMC\PTO.AMC.txt

Output Set: N:\CRF4\08102005\I545998B.raw

208 (C) STRANDEDNESS: single
 209 (D) TOPOLOGY: linear
 211 (ii) MOLECULE TYPE: cDNA
 214 (ix) FEATURE:
 215 (A) NAME/KEY: CDS
 216 (B) LOCATION: 1..723
 219 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3:
 221 ATG GCA CAG CAC GGG GCG ATG GGC GCG TTT CGG GCC CTG TGC GGC CTG 48
 222 Met Ala Gln His Gly Ala Met Gly Ala Phe Arg Ala Leu Cys Gly Leu
 223 1 5 10 15
 225 GCG CTG CTG TGC GCG CTC AGC CTG GGT CAG CGC CCC ACC GGG GGT CCC 96
 226 Ala Leu Leu Cys Ala Leu Ser Leu Gly Gln Arg Pro Thr Gly Gly Pro
 227 20 25 30
 229 GGG TGC GGC CCT GGG CGC CTC CTG CTT GGG ACG GGA ACG GAC GCG CGC 144
 230 Gly Cys Gly Pro Gly Arg Leu Leu Gly Thr Gly Thr Asp Ala Arg
 231 35 40 45
 234 TGC TGC CGG GTT CAC ACG ACG CGC TGC TGC CGC GAT TAC CCG GGC GAG 192
 235 Cys Cys Arg Val His Thr Thr Arg Cys Cys Arg Asp Tyr Pro Gly Glu
 236 50 55 60
 238 GAG TGC TGT TCC GAG TGG GAC TGC ATG TGT GTC CAG CCT GAA TTC CAC 240
 239 Glu Cys Cys Ser Glu Trp Asp Cys Met Cys Val Gln Pro Glu Phe His
 240 65 70 75 80
 242 TGC GGA GAC CCT TGC TGC ACG ACC TGC CGG CAC CAC CCT TGT CCC CCA 288
 243 Cys Gly Asp Pro Cys Cys Thr Thr Cys Arg His His Pro Cys Pro Pro
 244 85 90 95
 246 GGC CAG GGG GTA CAG TCC CAG GGG AAA TTC AGT TTT GGC TTC CAG TGT 336
 247 Gly Gln Gly Val Gln Ser Gln Gly Lys Phe Ser Phe Gly Phe Gln Cys
 248 100 105 110
 250 ATC GAC TGT GCC TCG GGG ACC TTC TCC GGG GGC CAC GAA GGC CAC TGC 384
 251 Ile Asp Cys Ala Ser Gly Thr Phe Ser Gly Gly His Glu Gly His Cys
 252 115 120 125
 254 AAA CCT TGG ACA GAC TGC ACC CAG TTC GGG TTT CTC ACT GTG TTC CCT 432
 255 Lys Pro Trp Thr Asp Cys Thr Gln Phe Gly Phe Leu Thr Val Phe Pro
 256 130 135 140
 258 GGG AAC AAG ACC CAC AAC GCT GTG TGC GTC CCA GGG TCC CCG CCG GCA 480
 259 Gly Asn Lys Thr His Asn Ala Val Cys Val Pro Gly Ser Pro Pro Ala
 260 145 150 155 160
 262 GAG CCG CTT GGG TGG CTG ACC GTC GTC CTC CTG GCC GTG GCC GCC TGC 528
 263 Glu Pro Leu Gly Trp Leu Thr Val Val Leu Leu Ala Val Ala Cys
 264 165 170 175
 266 GTC CTC CTC CTG ACC TCG GCC CAG CTT GGA CTG CAC ATC TGG CAG CTG 576
 267 Val Leu Leu Leu Thr Ser Ala Gln Leu Gly Leu His Ile Trp Gln Leu
 268 180 185 190
 270 AGG AGT CAG TGC ATG TGG CCC CGA GAG ACC CAG CTG CTG CTG GAG GTG 624
 271 Arg Ser Gln Cys Met Trp Pro Arg Glu Thr Gln Leu Leu Leu Glu Val
 272 195 200 205
 274 CCG CCG TCG ACC GAA GAC GCC AGA AGC TGC CAG TTC CCC GAG GAA GAG 672
 275 Pro Pro Ser Thr Glu Asp Ala Arg Ser Cys Gln Phe Pro Glu Glu Glu
 276 210 215 220

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/545,998B

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Input Set : N:\AMC\PTO.AMC.txt
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278 CGG GGC GAG CGA TCG GCA GAG GAG AAG GGG CGG CTG GGA GAC CTG TGG	720
279 Arg Gly Glu Arg Ser Ala Glu Glu Lys Gly Arg Leu Gly Asp Leu Trp	
280 225 230 235 240	
282 GTG TGAGCCTGGC CGTCCTCCGG GCCCACCGAC CGCAGCCAGC CCCTCCCCAG	773
283 Val	
286 GAGCTCCCCA GGCCGCAGGG GCTCTGCCTT CTGCTCTGGG CCGGGCCCTG CTCCCCTGGC	833
288 AGCAGAAGTG GGTGCAGGAA GGTGGCAGTG ACCAGCGCCC TGGACCATGC AGTCGGCGG	893
290 CCGCTCTAAA GGATCCAAGC TTACGTACGC GTGCATGCGA CGTCATAGCT CTTCTATAGT	953
292 GTCACCTAAA TTCAATTAC TGGCCGTCGT TTTACAACGT CCTGACTGGG AAA	1006

295 (2) INFORMATION FOR SEQ ID NO: 4:

297 (i) SEQUENCE CHARACTERISTICS:

298 (A) LENGTH: 241 amino acids
299 (B) TYPE: amino acid
300 (D) TOPOLOGY: linear

302 (ii) MOLECULE TYPE: protein

304 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4:

306 Met Ala Gln His Gly Ala Met Gly Ala Phe Arg Ala Leu Cys Gly Leu	
307 1 5 10 15	
309 Ala Leu Leu Cys Ala Leu Ser Leu Gly Gln Arg Pro Thr Gly Gly Pro	
310 20 25 30	
312 Gly Cys Gly Pro Gly Arg Leu Leu Leu Gly Thr Gly Thr Asp Ala Arg	
313 35 40 45	
315 Cys Cys Arg Val His Thr Thr Arg Cys Cys Arg Asp Tyr Pro Gly Glu	
316 50 55 60	
318 Glu Cys Cys Ser Glu Trp Asp Cys Met Cys Val Gln Pro Glu Phe His	
319 65 70 75 80	
321 Cys Gly Asp Pro Cys Cys Thr Thr Cys Arg His His Pro Cys Pro Pro	
322 85 90 95	
324 Gly Gln Gly Val Gln Ser Gln Gly Lys Phe Ser Phe Gly Phe Gln Cys	
325 100 105 110	
327 Ile Asp Cys Ala Ser Gly Thr Phe Ser Gly Gly His Glu Gly His Cys	
328 115 120 125	
330 Lys Pro Trp Thr Asp Cys Thr Gln Phe Gly Phe Leu Thr Val Phe Pro	
331 130 135 140	
333 Gly Asn Lys Thr His Asn Ala Val Cys Val Pro Gly Ser Pro Pro Ala	
334 145 150 155 160	
336 Glu Pro Leu Gly Trp Leu Thr Val Val Leu Leu Ala Val Ala Ala Cys	
337 165 170 175	
339 Val Leu Leu Leu Thr Ser Ala Gln Leu Gly Leu His Ile Trp Gln Leu	
340 180 185 190	
342 Arg Ser Gln Cys Met Trp Pro Arg Glu Thr Gln Leu Leu Glu Val	
343 195 200 205	
345 Pro Pro Ser Thr Glu Asp Ala Arg Ser Cys Gln Phe Pro Glu Glu Glu	
346 210 215 220	
348 Arg Gly Glu Arg Ser Ala Glu Glu Lys Gly Arg Leu Gly Asp Leu Trp	
349 225 230 235 240	
351 Val	
354 (2) INFORMATION FOR SEQ ID NO: 5:	
356 (i) SEQUENCE CHARACTERISTICS:	

VERIFICATION SUMMARY

PATENT APPLICATION: **US/09/545,998B**

DATE: ~08/10/2005

TIME: 14:51:49

Input Set : **N:\AMC\PTO.AMC.txt**

Output Set: **N:\CRF4\08102005\I545998B.raw**

L:30 M:220 C: Keyword misspelled or invalid format, [(A) APPLICATION NUMBER:]

L:31 M:220 C: Keyword misspelled or invalid format, [(B) FILING DATE:]

**Raw Sequence Listing before editing,
for reference only**



IFW16

RAW SEQUENCE LISTING DATE: 08/10/2005
 PATENT APPLICATION: US/09/545,998B TIME: 09:42:45

Input Set : D:\14094-20005.10 - corrected seq list (original from
 client).txt

Output Set: N:\CRF4\08102005\I545998B.raw

SEQUENCE LISTING

4 (1) GENERAL INFORMATION:
 6 (i) APPLICANT: Gorman, Daniel M.
 7 Randall, Troy D.
 8 Zlotnik, Albert
 10 (ii) TITLE OF INVENTION: MAMMALIAN CELL SURFACE ANTIGENS; RELATED
 11 REAGENTS
 13 (iii) NUMBER OF SEQUENCES: 9
 15 (iv) CORRESPONDENCE ADDRESS:
 16 (A) ADDRESSEE: DNAX Research Institute
 17 (B) STREET: 901 California Avenue
 18 (C) CITY: Palo Alto
 19 (D) STATE: California
 20 (E) COUNTRY: USA
 21 (F) ZIP: 94304-1104
 23 (v) COMPUTER READABLE FORM:
 24 (A) MEDIUM TYPE: CD-R
 25 (B) COMPUTER: IBM PC compatible
 26 (C) OPERATING SYSTEM: PC-DOS/MS-DOS
 27 (D) SOFTWARE: PatentIn Release #1.0, Version #1.30
 29 (vi) CURRENT APPLICATION DATA:
 30 (A) APPLICATION NUMBER: US/09/545,998B
 31 (B) FILING DATE: 10-Apr-2000
 32 (C) CLASSIFICATION:
 42 (vii) PRIOR APPLICATION DATA:
 35 (A) APPLICATION NUMBER: US 08/911,423
 36 (B) FILING DATE: 16-AUG-1996
 39 (A) APPLICATION NUMBER: US 60/023,419
 40 (B) FILING DATE: 16-AUG-1996
 43 (A) APPLICATION NUMBER: US 60/027,901
 44 (B) FILING DATE: 07-OCT-1996
 46 (viii) ATTORNEY/AGENT INFORMATION:
 47 (A) NAME: Hill, Laurie L.
 48 (B) REGISTRATION NUMBER: 51,804
 49 (C) REFERENCE/DOCKET NUMBER: 140942000510
 51 (ix) TELECOMMUNICATION INFORMATION:
 52 (A) TELEPHONE: 858-720-5100
 53 (B) TELEFAX: 858-720-5125

*Does Not Comply
 with
 Corrected Diskette Needs*

ERRORED SEQUENCES

P.2

590 (2) INFORMATION FOR SEQ ID NO: 9:

RAW SEQUENCE LISTING DATE: 08/10/2005
PATENT APPLICATION: US/09/545,998B TIME: 09:42:45

Input Set : D:\14094-20005.10 - corrected seq list (original from
client).txt
Output Set: N:\CRF4\08102005\I545998B.raw

592 (i) SEQUENCE CHARACTERISTICS:
593 (A) LENGTH: 6 amino acids
594 (B) TYPE: amino acid
595 (C) STRANDEDNESS: single
596 (D) TOPOLOGY: linear
598 (ii) MOLECULE TYPE: peptide
602 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 9:
604 His His His His His
605 1 5
E--> 609 1

VERIFICATION SUMMARY DATE: 08/10/2005
PATENT APPLICATION: US/09/545,998B TIME: 09:42:46

Input Set : D:\14094-20005.10 - corrected seq list (original from
client).txt
Output Set: N:\CRF4\08102005\I545998B.raw

L:30 M:220 C: Keyword misspelled or invalid format, [(A) APPLICATION NUMBER:]
L:31 M:220 C: Keyword misspelled or invalid format, [(B) FILING DATE:]
L:609 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:9

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